Difsertation

On The

Hydrocephalus Acutus

Hugh G. Leymour

admitted March 27. 1019

By the Commence

"In medical writings, etriah arranty is about all other things requires; and to this I have remetantly address, to the last of my hundrage and judgments."

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## Preface

The difficulties and embarrafements, which are necessarily of sociated with juvenile performances of this nature, have been so often insisted where, and are so well known, as to require, at, present, no particular, notice. As it, is an institute, of the school, however, under whose auspices I have had the housen to commence my acquaintance with Alma Mater, that, each candidate for its howevers, shall propare and desent a difertation on some medical subject; I have adveted and arranged the following remarks, on the Ayebron phalus Much has been saids with regards to the most proper name for this disease, and authors have been us less prodigal of the denominations which they have conferred whom it. Thus we have the Apoplicial Hydrocephalica, Hy droughales Interend, Hydroncophalus, Hydroughalus Acutusdes

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After some reflection, I have thought preper to adopted as conveying a more distinct class of the nature of the conditions, the latter elementaries. That this opening of Bydros standard channed of Bydros standard through the conditions of him the last can be no doubt, made at once of this conditions of him the last can be no doubt, on early alternative through the conditions of the new conditions to mean of present to me to be prealess, apprehensive.

With respect to the character of the secontion, I can only day, that, so par as my abilities enabledo me, I have oudian wred to present a clean and comprehensive new of the sub. jech. If I have failed, I have at least, the satisfaction to know, that my intentions have been pure; and that I have always hado before me the notests incitements to acertion which can animate a young and inesperienced minds. Presuming, therefore whom the classenay of these, into where hands this hasty production may fall; I consile muyself with the reflection, that their decision on its aplitude for the purpose intendeds, will not, defends so much upon its real merits, as the consideration, that the author is but, a more typo in Science.

This is a hillable case, in which the not hade perings, the imment judgment, and the almost organite of the physician will find a call, and a tack infinite to correct and diploy themesters but, also I of four the physician is elden eight for title the appending may be lether out to the physician.

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If all the detected to which children are expected, peak ape there is not too clark more described pelanics is it to the activities and described of the sum that the described in the altertion of the layer course than the Agricus of fact of the common with the posterior of the fortendant, of possed, when we resisted that the higher of affect one of the bedy, and that it altered is small took regard of the bedy, and that it altered is small took of provent father, and the cases, the approach of the location of the the control of the interest of the control of the interest of the inter

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## History of the Disease

The anteredout symptoms of Agdreephalus, are in many cases inconsiderable, and apparently so unicomportants that they me often wholey disregarded, or considered as the sines. lations which shildren design to keep them from school . In the beginning of this disorder, and sometime previous to the ap pearance of any confirmed complainty the child loves much of its ordinary shightliness, and becomes, daily, more dull, languist and drowsy, being averse to motion, and complaining of slights paint in the heads and belly. Even at, this early periods of the complaint, the stomach and bowels, are often considerably disordered, the appetito is generally unpaired, though somtimes morbidly increased, and troubtesome parrayens of hausea and remitting aggravate the symptoms. As the evening approaches, a slight, fever supercenes, and the child's sleep is interrupted by uneary dreams and startings. the headache, which at this time is seated in the firehead, is very swere, and causes much complaints. Light distur als the patients, the eyes som become fatigued, and the pufils are at different times, more or less contracteds. Neuto pains are complained of, in several parts of the

" Will Cheyne on Hydrocophalus Soulus. Sothergill . Quinto .

body, now, allacking with much violence the nape of the needs, The the bowels, and finally, the waternelies. Most, comminity the bowels are costive, and the longue is white, sometimes, however, un opposite condition prevails; the stools which in the commencement, are clayer, change in the progress of the disease to the consistence of jelly, take on a darle green colour, and with an offensind odour? The remoting) which is so prequent, and troublesome an altendo and on the complaint, secure chiefly in the morning whom the patients rising from bed; The symptoms which have been detailed, are like the lives of the camelions, very chan geables searcely, wer happening twice, wastly in the same orders and after having lasted a short, time, become some what more determined and characteristick.

the four which at first, was slight, new increases, and sentime in the course of the day, generally tenenal serving, underget an exacontation, during which the sufficient is like the which are flushed attended, the this is like, the checks are flushed to fuller which in the beginning was nearly naturally to the fuller which in the beginning was nearly naturally to was frequently and the hardwards is more reduct, and

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sleeps profoundly; but has short and intercepted elum bors, during which, it starts picks its note and grinds its tests. It distakes to be disturbed, and manifests a disposition to remain, constantly in the recumbent posture; stupon enceceds, and so great, is the inscussibility, that the stools and wine sometimes paps involuntarily, the former of which are of a dark colour from a commixt. we with bile, and particularly offensive. The pupils of the eyes are much ditated, and stratismus or equinting may now be observed; the child means a great deal, fre: quantity raises the hands to its header ande cometimes versand loudly without complaining of any particular parts. The head is generally, very hoter from which a property perspiration occasionally flows. The superficial round which namify through the scalp, are in some instances considerably distanced with bloods, and not un frequently opistaxis, or a homorchage from the nose takes place, with lettle allocation of the symptoms. Other the disease has gone on in this way for some time, the complexion becomes sallow, the patient, is consi: dorably emaciated, its head is so heavy that it seems

in the The so atthe of sideolo; s had by \* Nid Cheyno

scarce able to support it, and such is the languer and dejection of the countenance, that there most concorned in the case are ready to despair of a recovery; The attack is similaries more sudden and violents the shild being immediately suzed with a considerable four which continued with little abatement, throughout the first, stage. This is particularly, the case where the presions healthe of the patients is defectives either in consequence of an anteredent, scrophulous affections, which has lately subsided; or of some epidemie disease with which the child had before bun afflicted, and from which its health has not been perfectly restored: Through the whole course of the disease, there is the most manifest extitence of irrequer lar action in the system. At me time, the childs is four who and restless having the quick and throthing pulsas the both chies the flushed countenance, and the hurried laborious breathing: at mother, the circulation leading its irrege utarity, becomes atmost natural, the shir is mish and of the proper temperatures the complexies is was and the respirar tion easy and undisturbed. The active for both ford and dink is irregular, the appetite being semetimed nearly

lever fr wently. metin tis my \* Did. Cheyno.

naturals und the patient, makes no complaints of thirst; at others, the stemach is so weak that for several days seen reely any newithment is taking there is great think and nmiting; the worse is sandy, and the besself are constantly carging from the natural conditions, remetimes discharging with much pairs, penascous stortis and then so obtinately, cottered as to require the use of the struggest purges. The fever prequently abates, but is never entirely, attents, und is sometimes altended by such acute pains in the heads, that the child becomes delicious, at first, racing there it is suzedawith convulsion twitches of the pases and now and their the limbs are affected with the inequalor motions termed of Wituses Dances - The stages, characterized by the state of the pulse and sensibility, of the system have been appreprinted by authors to Hydrocephalus and which though free quantly uniform are liable to some variations. The first stage is known by the pulses being quick, inegular, and uniqual; ermetimes having this positionity, that you a few fulvations it is very down not amounting to more than so or bo in the minute, and during the next thert interval of time it been mes so frequents as to acceed 100: There is much pair in

phild we is tino, the areased \* Wid . Cheyne . Hye, mas

the head; the eyes are suffused, and the pupils closely contracted, discovering a dislike to the light; there is a blush an the face which is attended by a hot dry sheet, white tengue, and in general by mosts of the symptoms which indicate an increased suisibility of the system. In the second, the pulse is slow, still irregular and intersuits; the pair in the head together, with the febrile heat underge a temperary abatoments; the childe is sluggish and difficultly assiled to meting, seeming only ancious for quiet and reporte; the pupils are much dilated; which is accompanied by thatismus, and when the eyes are not, absolutely, inscribbed to the light, their and deviate so much from the natural derect. ions, and viview is thus rendered so importeely that objects present, a double surface; the bould me so resolutely, constitues ted, that, the most active catherties one unavailingly unplays ed; in short, such is the deficinery in the astrone of the systems, that, this has been very properly, called the stage of decreased constitutes What has been denominated the third stage, may perhaps with more propriety be considered as a Instruction or continuance of the seconds Let this, however, be determined as it, may, it is confessedly a conjunction in the

death.

complaint, that affords the least chance for a profelation application of art, and a hazardens periods, at which the must sanguine hopes of encep, are prequently subduced by the whome vistence of disease. It, is in this stage, that, the pulse becomes small, weak, and its strekes fellow each others in such rapide succession, that, it is with the atmost diffice culty, they can be numbered; the face presents frequents but temperary flushings; and after their reself, a gloring waw = ness roughreads the counterwaves; the heath is nelly or offer. sive; there is great difficulty, of breathing, which bears a strong resemblance to the Stater Applications; hemiplegia cometimes takes place, which is followed by stuper contractions and death.

Alanny were described the symptoms which appoints to the attack, as well at these characteristics of the defends struct the second of many the second was the forest wherever waste, purpose wearly, the come course, but forest in very indiana symptom, ranging according to the commerciant of the cases from the in much have preparently, remarked the perfections further any attention of the cases of the cases



to ordiner in general language, its privise history, could with be otherwise there unsuccepful. To altain such desirable accuracy, each case, would require its own individual history. In most instances, however, morny of the above mentioned symptoms appear, and though it, may be somewhat trubbesome to distinguish the complaint in the commence ment, there is little difficulty in the latter periods. Indeed, says Dr Cheyne, "how can we mistake, when we see a child rolling his head on the pillow, or perhaps sawing the air with one hand, while the opposite side is palsical; with a hootie on the cheek, his exclicts half emecaling the pupils and the age advised of its meacity by the filmy coming of the corners, the complete delitation of one ar both of the pupils, and the sufferior of the adnata; drawing a long sigh; prequently, granding his teeth; quite incherent, or in a state of complete insensebility; with a burning fever an his shin, or sweat proced from every pore; and all these symptoms alternating with, und at last finished by apopleotic breathing und vislout, conrulsions? All the stages of lifes excepting advanced age, are liable to the allaches of Sydrocophalus the infant,

father .. will fel a strict who he rafter .

houser, is destined most prequently, to become the subject of its prey. And this we might be led to aspect, as the brain at this time of life is larger in proportion to the other parts of the brdy, those in the adult subject, could equantity; whenever the energies of the system are much increased, a preternatural determination of blood to the brain takes place, favouring in this manner, the cepter alie in flammation which terminates by soreus effusion into the restricted. Hydrocophalus, is prequently a family, complainty and many instanced have recemed where sw oral children of the same parents have enceficily died of it. Dr. Muderwood mentions an affecting case of this hinds in which six children when two years old, were thus surefiely destroyed and Dr. Cheyne has recorded one still more deplorable, where this disease deprived "an unfortunate pather, of eleven haples children From this statement, it will plainly appear, of what great, moment, it is, to bestow a strict, attention on the precautionary or preventive treatmes outs, by which its alarming) fatality may in a greats measure be obviated; but, of this we shall say more her. eafter. This disease is prequently met, with in children

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having a scrophulous disposition, which may captains why the effering of some parents are more capased to it than others; as it is highly probable they inhorit the strumous take who, and with it the lendousy to the disease, from their ass sectors. It is also a curious fact, that most of the children who have been offlicted, and died of this disease, were not markable for the acutenofs of their intellectual powers, dis playing) an appositoness in conversation much above their years: and Dr. Fothergill remarks, "that several of these who first of all came under his care in this disease, were either the faccurities of the family, or the sole hopes of then parents." Ay dro cophalus is not confined to any particular season of the year, occasionally happening in all of them, though, porhaps most prequently in spring and summer. the length of time which it occupied is not very regular. dometimes only a few days are consumed by it, while at other s it portracts its continuance for several weeks. Most, generally however, if the patients has reached the second or think year of age, twenty or thirty days terminates it; but if the child be very young, it is of a much more limited duration, freque cetty abridging its course to the shorts period of four or five days.

1 to distass to be a fee it is most to tienlar a or the daying to Jeathises. y on those 14 disease way of ils of thew bein to is a cons 46, and . E deay and Bollins, a Whating " hales has 100 Mary

## Diagnosis

As it is desirable to distinguish Alghesephalus from some other diseases to which it bears a resemblences of shall nich make a few remarks on each of the conflictants, with which it is most likely to be confounded. The diseases to which particular abbusing is had; are the wrom force, the infanction relieved to the complements Alghesephalus, or the sympteme which arises, when the brains moleculy, symptotheses with diseased, chillipseless viscours.

is some storme the is not ren easy to appreciate signs by adult on disease army to always distinguished from worm easierful many of the work, symptome are present similar to their arising from reasons, by both of them hand completitude of the same ago, them, however, there is a continual amount of the same ago, them, however, there is a continual amount possible of manning the light, attended by names, and acute from or the continual through the same effective in the continual time of the light of the light pertales the total effective explanate for all the contents of the limited it is highly pertales that the objective explanate has either already executation of the limited, at it is highly pertales that the objective explanate has either already executation of the characteristics applicants which have

\* Hothorgill. t. Wid. Elements of Materia Section - Therapenties, by D. Chapman been meatined, to ale, undealitally seem in the orimin the oriminate and in general not orinformate, but they are more transient, and in general to redayle them. In particular, the attending relieb our effect to redayle them. In particular, the attended from women or much more cased, consected, and the state one of much not in discover or those affigures operand, also are oftener mot note in discovered or the dependent upon women there is discovered under consideration. The symplemel however, which most of all wight to be depended on, and which more distinctively officiality to the case of around, are "a very strongs attended officiality to the case of around, are "a very strongs attended or free or metances, a telest life of speech."

if ren Amalton Hours. A particular attration to the symptoms of Agreesphalus, so note as their of the hybridite Amiliant Hours, with general moules as to distinguish their discovers. By contrading the cardinar communication to propose with the andem attack, the owner conflicts remighenes, and the greater health attack, the owner conflicts remighenes, and the greater health and of the child suring their continuous in the latter, and the child suring their continuous in the latter, and the child suring their the confliction, are that the much adjusted in our disquession that the complication, there is pair in the health but to the them.

x. Wothergill, Bornes. Maint whale Vetween Lagues the early stage of the disease; and are generally assempaned by wanters; and diseases of the stimulation of the stimulations which much important endance a brothstane confusion of the symptoms, which much endance a brothstane confusion of the symptoms, which much endance to the stimulation of any about the professions of associated distinctions of associated distinctions of distinctions distinctions.

Them dynaphemative Alghrenshhalus It has been any hickent described by 20 Millars; that we elevated distinguished the own placed, can affective definition from the symplemative that we feel one of the additional or seconds of which the brain by merbide affections frequently factorists whiteless a varie of eignificant very similar to their of the indeputhe was of eignificant or sure frequently in most frequently between the brain to there organs, we shall hardenlandly confined on attentions that there organs, we shall hardenlandly confined on attentions that there is the sure recoglising, not call with a view of estilling the diagnosis but also to point math to proper methods of

for "most na stien may do ina titate to conste gin beire ant into · Burns thinger to of the open He was he ma despe two of was the tree we to wis the are of de les Tha

management, which this peculiarity of the case demands: for "most commonly at least," says Dr Chapman "the disense" referring to Aydre achhalus "dees not depende on an acou = mulation of water in the rentricles of the brain, but con. sists in an allored state of that organ, arising from a pris many derangement, in the chylopoieted viscores, and parto. cularly of the stemach." Many of the diseases of childrens indulitably, depends on obstinate constitutions of the bourts, and the symptoms preceding from such a condition of these or= gans, from this striking resemblance to these of Aydrocephabut, much have often awakenedo the apprahendient, and brought into saction the most vigorous wortiens of the pone titioner to subdue them. It is mentioned, indeed, by an author's of no small degree of respectability, that he has with great pleasure, known children recover from the most alarming and desperate situations, when from the manifest, simil. stude of the symptoms to these of Aydrocephalus, there was the most obvious arguments for concluding that dis: lase to exist, untile the result, of the case proved the centrary. It is will known to these experienced in infantite diseases, that there frequently, wists between the Marasmus

no dela en stately, m thaties for duces a fine to ting to enter, Tax ohie sore hea to dute Das is 1) whitem h land to Maded la bine Breed, 1 for a cons wat ans He her

and Aydrocophalus on internato aprociation, and it is my deliberate consistions, that the latter complaints is often completely, and incomedially, established in the intractable obstitutions of the bowels which not unfrequently attended produced marasmus. If this observation proves true, and there is little doubt, but a more enlarged caperisme will confirm its correctuals, I cannot be too importunate in so= liciting the attention, not only of playerceans but, also of parents, to the condition of these importants organs in there children who may be intrusted to their cone; and where health it should be their objects, as much as it, is Their duty constantly to improve. There is, underiably, a strong resemblance between the symptomatic and idepathic By decephalus. But, it will be found that the equipternatio disease quently amonds, or cases entirely, whenever the unhealthy, state of the bourts has been corrected by a suitable application to cathartees. Whereas, the idispathie complaint, contuma siously resists for a considerable time, the best, directed plans of breatment, and I am sony to say that its fell career is too often never anested untito the patient is consigned to

weld go V. will to hea ber otting . to y symp 1 m 111 Je W tak to first to their a 6 to in no the for y the na " steras blind,

the cold hands of death. A short course of gentle purging, timely resorted to, is, most generally, competent to prosents or our an indistrosition, which if allowed to progrefs, will become an exceedingly intractable distimper, that frequently proved fatat. While upon this subject, I cannot ful satisfied without intioned the absolute importance of strictly attending to the early symptoms the harbingers of this mischious complaints. I am esticitous to exocto an attentive observation at this period of the disease for various reasons, some of which I will take the leterty brifly to moution. It is never are, in the first place from the negligence of children, in regards to their complaints: for they rarely, untile compelled by new cepity, inform us of them. In very young infants the diff isulty is increased, and the plainting ories of the childs are the first sign to apprize us of its indisposition. But. of the nature of its complaints, we must endeavour to form an accurate opinions by carefully examining the alone discharges, and by a waterful attention to the countenances, the features of which assume different no pressions, according to the various kinds and degrees

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of pain. These descriminating me difications in the line caments of the face, are important, auxilians, at bash, in infants, in enabling us with more clearness of judge ment to deside on the character of their complainted and with more containty of success to adapt, our remedies to their respective poculiarities. It is further an object, of great consequence early, to detect, the nature and tendency of the complaint. The advantage which is thereby obtained in the breatment, is adequate fully to compourate for all the breakle we may encounter in instituting the proper in quines for such a purpose. Every one will be sufficiently commend of the bushet which arises, from forming, soon after the first symplomes appear, a correct opinion of the disease, when they carefully contemplate that many of the symptoms of Agareephalus, are not only of an ambiqueus nature, but equally belong to other complaints. If we soen admit that there who are familiar with the disorder, encounter, comparatively, little difficulty in distin quishing it : yet the united observations of practitioners, are sufficient to teach us, that, other causes produced similar symploms, which may without the most accurate

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investigation, and distinctnoss of conclusion repose us to the commission of errors, for which the most prignant remorde can never alove. The most important reasons, for dearting a seasonable and rigilant attention to the forerunners of the disease, romains yet to be considered. It is the great, influence, which a judicious mode of treatment commenced at this early periods, has whom the result of the case. For though in most other diseases, we may, by a present and shiffel application of remedies, frequently be successful in the cure, at my stage; yet, humitiating experience instructs us, that it is only in the early poiseds of By disceptules, and before offeriow has taken place within the ventricles, that our remedies have much chance of success.

## bauses

illydrocyphalus essentimes lakes place, without our beating also be trace it to any satisfactory cause, done frequently human, a particular societists, with vegated to the cristilation, and the process health of the patients, as well as the acceptant to which it may have

In antes Celorna or treate Aligina 1 This of brately . tion he Minedo to there in state, which who to of 18 been anteredoutly expersed, will deserve some one of the following causes

1. External virtues, Cortain injuries done to the head as blows, and bruises, often produced this disease. The man ner in which such accidents ofwate, when they, become causes of Sydrocephalus, is not very obvious, and whom This points, two very ingenious gentlemens, both of whom have treated of the disease, materially differ. The tate distinguished Dr Ruch, supposed them to act, "directly, by bringing on congestion, or inflammation, and afterwards an effusion of water in the brains. Theread, Dr Cheyne, who had elaborately written on the complaints, avers, that in more than one hundreds cases, which have some under his observation, he saw not one instance of the disease, directly occasioned by reternal violence, and only one where it was indirectly produced by the same cause. Ale contends that these injuries, ach intermediately; by inducing an asthet mie stato, or by exciting into action a sorphulous condition of the system, which hitherts had been latent, and which when aroused, is very facourable to the establishme outs of Aydrocephalus. This apparent contradiction with

whole 400 /00 intimed! deles is tu de shipeles 1 Juin ittent. 1 this produce.

perhaps admit of explanation, by expressing; what indes ed, sumschighly probable; that the systems of the patients to whom the above nesidents happened, were not at the time of the injuries, in similar situations. For it is supficiently obvious, that a certain cause operating whom a posuliar state or condition of the systems, may in the one ease produce a particular effect; whereas, the went shall be contrary in another patienty whose system is differently circumstanced, and watered to the same cause, What these stated, wealty are, I am not proposed to determine; but, it is an incontrovertible fact, that some featients when subjected to such violence, one more liable to take on ins planmatine than the astherie state, and rive versas 2 I werd Among the causes of this disease, may be men tioned the raises kinds of fewers; as the intermittent, re = millouts, and continued fours. That By dro cophalus sometisnes, succeeds these diseases, there is not the least doubt, and to this point, we have the testiming of sweral authors. A ter having pursued their ordinary courses, fevers, frequently leave the system in a condition, highly favourable to the production of a new disease. For while they wish to

tends. ted, a feelled bpwo, ends an well- her lich w Columnic tale, in " attac Rhowns it a de

a considerable with, the circulation is very much exciteto, and if the brain be naturally weak, or have been enfectleds by previous disease, it is highly reasonable to suppose, that the bloods would be determined thither, in quantities so fretomatural, as to impede its natural funes times, and thus lay the foundation for the disease. 3. Eruption Speners. Many instances could be cited where Agdrocophalus has occurred as the sequel of the mensles, small-poor, and seastationed A case is mentioned by D. J-Sunter, in which the disease sucreeded the small-por; and which was succepfully treated by the mercurial plair, as recommended by D. Dobsow. Dr. Rush, also, has recorded a case, in which the debitity of the system occasioned by an attack of the meadles, manifestly gave rise to the dis. eases and D. Odior has witnessed four cases, where it, occurred after the small-pox, measles, and scartalina. 4. Cheunation. Cases of Aydrocophalus, have sometimes happy ened from this course. I am disposed to believe, however, that in such instances, the rhoundiso is intimately blendede with a scraphulous dishosition, and that this indeeds is more frequently, the true cause of the complaints,

Thomas 1 Miles Astine at only a interes 10 notice with no s redies. 1 Chanie w de Agas 14 aff 1 2 teles Marin tov, Me Shows the emilerity while proacts, in most instances between the eight of worms and the top descriptuates have dutilized not sufficiently decision more more into having and fate conclusions that the emplaint, however, which would can enduced to believe, and cole assert from this course, for end colerated believe, and cole assert from the authority of anists, but believed before an interesting energy, which has battly happened under my own notice, where worms were un notice, where worms were un notice, where worms for undergette now of the most petitude considered the interesting the deligents were of the most petitude considered terminalists fatality.

b<sup>4</sup> Chunich Emplems, dudetady healed, have demetimed prednew Typeseephalms. No altempth church be made be conv tack affective, withink prevently establishing on spens

I Morione other complaints, have been montioned as course of Augmented places, coming which, are the selice, pulgy, melan when, depending, dentilers and insetation.

## Proximate Cause.

Disconsificity, as have been the speculations of the earlier , we that very interior and interesting frach of

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our subject, none of them appear to be entirely satisfac: tory, or sufficient to illustrate the people cities of the case. By consulting the works of Dr. What, Hothergill and Dar win, we shall be persuaded that the pathological views of the complaint, with which they were pleased to favour us, have rather originated from their instination, to elucidate so obscure a matter, thow any accurate hundredge which they injoyed of the real native of the disorders Thus by Whyth the disease was imputed to an original weakness, or laxity of the brain, and also to a too this and realery state of the bloods. I othergell considered it as "a dropsy occasioned by the rupture of a lymphatic," and "a debility of the absorbents" was a founced by Darwin as an adequate cause to account for the water which is found in the brains of pratients who have died of Androsophalus.

Spream the resilect of these speculations, it is very evident that the premulation of their respectives to the disease to be a desprey; constrains as the immediate effects of the second conice africand, and that the effective their produced within the brain give rise to the conicus symptoms which are presented in the course of the diseases dince

time. " tation a obide ne to bras " inflan Vide Cheyno se. to be · dupper breepho t place, the dist by pories

the line, however, of these illustrious and senerable cuttor vators of seience, we have been taught, by ample capters ience, as well as aspealed diferctions, that, the disease is note, in reality a dropery, but as subsequently has been sh = own by Det Quiere and Cheyper consists in a primitive did : orders of the corebral circulations; admitting a morbide accus mulation of bloods to take place within the brain, from who ich with of the symptoms precede. According to our presuch knowledge of the outrick, the pathology of My dos cepthales may be thus stated. That, this disease depends upon a morbide redundancy of bloods in the renal circulations of of the brains, which is occasioned by some degree of previo ous inflammation, and in a majority of eases, causes smotime before death, a greater or loss quantity of lympho to be effused into the ocutrioles? In support of this opinion of the proximate cause of By drocophalus, I shall present a few considerations. In the first place, we may remark, that, in a majority of eases of the disease, in which bloods has been detracted at an early periods, it has almost uniformly exhibited the same morbid appearances, which are peculiar to this fluids

the per winds of west These and from while ato to of the as unfrase h wind u to V testini to of which n & which in Venero, is with alwa Toutant, The to a to de dife witato to a come in 4 4 ando

in diseases of an inflamonatory type. The excitement of the pulse, and the exceedingly acute and distriping hair in the heads, which generally attends in the early periods of the disorder, must, also, be lookeds whom as evide meed through concurring in favour of this view . The bleed ings from the nose, and the turgidity of the superficial refeels about the head and nech, together with the mitiga tion of the poin and other symptoms, which constality accompanies, the use of the lancets and other antiphtogistic measures in the early stage of the complaints, are constores ting testimony which cannot well be controverted. Another proof which is exceedingly favourable to this supposition, and which indeeds ought to be considered as conclusive evidences, is the manifest deterioration of the symptoms which always follows the administration of weiting or stimulant, medicines, in the first or inflammatory stage. Other to all this, are added the diseased appearances which difections have revealed, containly, no one can hesitate to admit the correctness of our pathology; for it seems indeed to be the obvious dictate of natureznes ason, and coperiouse. Are we not, from all these

as Verinie to to the 1 luid ha plette to Much na val A troops to brelet un ortuna in treat Ewi sho in war. toration for nec: app is fate refloring, juilly without to sense to this determinations of that the synthems of this descrip to not as formaly top point, and you from the presence of a preternatural quantity of fluids in the restricted of the brains but from a palation for hand of excellent inflormations which produces a more but pletting in the count considered of the regard and that he obtained the pletting the but held to free along it absolutely the radioal effect of the present and that without of the pleasant of the present of the pre

## Prognosis

Amour demake, or estisfactory it may be, in many energy to finite the wester of diseases, it is a painty which unfertunately me it is to the transportant must tracked up it is particularly neighbory, that the property should be intromety continued and deliberate. It imports that is the nature of this disease, that see treaten has been homen to take place under entermitte treaten has been homen to take place under entermitte track of a patient, the neith information that it has been forced, appearable, the neith information that it has been placed of a patient, who reserved after being abandance to the fater. And To tratern martining the restriction

at notes The siele To will be & timed, to be shill we woo to o vito en To vivido. 3. to be which he support to titions ? to as the the step a matural

of a boy, in whose case, with the execution of a blisting all the remedies used, were of tittle efficacy, remarked, that it may smalined happen, as in the present instances that nature although but moderately afristed, will enable the sich to struggle through distases beyond our most, sanguing expectations. In forming the prognosis, allerties should be paid to the following circumstances. It, may be mentioned, in the first place; that when Androcophalus at tacks children, where constitutions one previously sound and healthy, is early detected, and the appropriate remodies had recourse to, immediately whom the occurrence of the first syms plend, the chance of cure is less doubtfub thow under the opposite eironustanced. According to Dr. Cheyne Aydrocop. halus is more easily cured, when a family complaint, than othorise. The return of the musous secretion from the now, which in this disease is frequently suppresseds has bun supported to be a favourable sign. But what, is more propertions than all, and which perhaps night to be regard deds as the only anspicious tokers, is the complete defeation of the stupon, or comalose state. On the contrary when a naturally defective constitution, or a system subdued

" D' Chapmans Al St Lectures. we entirely

by previous complaints is apailed by Androcephalus, the prognosis is extremely unparourable. If permitted to adve, mee untill symptoms, indicating an effusion of some within the brain, display themselves, the disease generally terminates in death. At the same time it ought to be mentioned that cases have happened from which, notives thetructing the occurrence of such symptoms, the paties nto did recover. Plentique discharges of unio, with copimed and partial perspirations, taking place in the let tor stages of the disease most commenty, forcbode death It should not be emilled, however that the reverse of this is sometimed bud. Thus, a case is mentioned by Dr. Cheyno, where from the insensible and seemingly, meritundo state of the patient, a succepful termination was enterely despained of; but at the very threshold of death, a profuse sweating tock place from the head and nach, which was so great as to make it necessary to change the pillows, and from that instant, the childs began obviously to revive, and completely recovered. Other, unhappily, the aforstance of and is not exterited untill the latter periods of the complaint, title hope

10 00 14 hidnes by thing, 6 brable h caution highly no to ben n harabl to part un of re 4 de .. \* Quine. ne rededo agely no of a core can be into tamer. Here, indeed, can me soprech encored, at the advanced stage of its travellant. The most dangerous and alarming symplems are presented, each as good comac blindays, memorbility—involuntary discharges of the mine and passed, weak and rafield pales. hurried builting, and as the tragedy cenclular paralysis appears, and overestime close the seens

## Prophylaxis.

In a disease of such unexamples continuory, and depleable meetabily or the one which I am decreting, proceedings, proceedings, or preceding meetwee cannot be two highes, accumulated entire in the been already enites it much be chieved, that incremposably agration dependence, may be placed upon the fact of the breakment, than the met chilful new of remedies, after the disease is completely, alobelished. He in many cases, this complaint has been precedied, by a diseased state of the lovel, it is highly needs on, otherwood state of the lovel, it is

to & who 20 110 0 di vitor to the il a fa 11 torde 6. votile 10 4 h is any 90 de co le the to fun most a int a ac nu me beer les or to i Vann in ad is selen.

to have immediate recourse to a such of milds cathare ties, which we may repeats, occasionally, untill a restors ation is effected. That a healthy condition of the digestive apparatus, is a matter of executial importance to the due exercise of all the functions of the body, is a fact, which I believe no one will dany, and which indeeds, experience daily suggests to the wisdow of every practitionen. From the intimate sympathy, which prevails between the brain, and the chylopoictic viscora, it is very apparent, That if a diseased state of these or gans, is permitted long to continued, the brain will at length partate of their merbids situation, and having its functions thereby improved, will by reflex sympathy, reach whow the parts, from which the impression was first extended; and occasion in them an additional; and much more dangerous disorder. After what, has now been said, it, is only necessary to observe, that, the longer the preper treatment, is smitted; so much the mos re alaming becomes the affection of the bowels, and instead of desangement, in one portion only, the instaline is extended through the medium of afreciation, untill

- while the most i bernoute 4 thetas to " to teste is all from 1 6 drink with iner w dated to & lanele v to he 4 4 tun 01 he an op is additions in to blace but of the & head or to beach, is ostar

the whole is involved, and a calenation of morbid sym. pathies is thus constituted, which often bids defiance to the most powerful and officient resources of our art. Whenever there wists a predisposition to the complainty as is frequently the case, the presented measures much be adapted to the constitutions, and particular circumstances of the patients. Thus, if the child be of a plethorie habit, all heating and climulating articles, both of foods and drink, should be correfully avoided. A spare diet, much be inenterted. The daily use of exercise judianuly; regulated, together with gentle purging; will be founds highly beneficial. If the child is subject, to frequent, pais no in the head, which counts be attributed to some other cause, our suspicions chould be excitedy lest it, may arise from an oppresed state of the corebral circulation, and in addition to the preceding runedics, it will be requwite to place an ifene in the arm, or a setond in the back of the nech. These measures proving inadequates the head ought, to be shaved, and a blister applied to the seally, which is to be kepts discharging untill relief is obtained. It is mentioned by Dr. Quium, that

mhage U which dit not who rece we to me dabilably al bleeds milish dy and then from w is near it will sugarate 11 Burns 1 unfeloy.

he has husere several instances of children having a family, right, to the disease, who were subject to frequent; homonhages from the nose; and that he has considered its proper in those cases, to forbide the use of any meads west which mights interfore with such bleedings. Like De Quinn, I should much fear to check these hemonhages, if I did not design, at, once to resort, to such means as would render their continuoused unnecessary But, it, appears to me, that, the occurrence of such an went, sous indutitably to show, the existence of either general or loca; at plethera, and the consequent necessity of general or local bleeding, which intention, I should rather prefer to accomplish by means of art, then leave the process to the turdy, and often, ineffectual operation of nature. When from a defective constitution, or acquired debitity there is reason to apprehend the recurrence of the complain who, it will be predout to employ means calculated to unigorate the system, and restore the health, and as M. Burns has will remarked, we had better be blamed for using remedies too early than have to regret, that, we employed them to lato?

de bar a to exite A to of 1 rader A Steried. 1 tim of of he 1 Vandew as in 6 the the H The a their us

## Method of bure.

If, redworthstanding, the most judiciously regulated proprie hylacis, this "insideous destroyer" prevails; or whow as some times happens, the disease unexpectedly afrails the unfortion nate child, we are bound by an inviolable duty, both to the profession, unde our patients, immediately, and signous; by to oppose, the inauspicious progress of so hostile and a invader Since in the commencement of the disease, symptoms, frequently occur, indicative of a disordered cons deline of the stomach, there can be no doubt of the proferiety of having recounte to a gentle emotie, which will disturded the stomach of its offending contents, and prepare are it for the reception of subsequent remedies. But, in this, as in every other disease; we much be governed very meeof his the particular circumstances of the case. Thus she uld the obtainate costwerich of the bowels, which usually alle nds the complaint, be, the most prominent symplows, no one would hesitate to apply to catharlies, and possesone in their use, untile the healthy functions of the alimons. long canal are restored. If by these remedies, the early

demplome vance, the and her distemper Our port Hord in and linds tal part has redo Blood-Hoode letter and in or topica indlamoes. from the the age the pres some of very fac allege, the symptoms have not been arounded, but contains to advance they em discour to us by their increased victories and more disputer character, the malignant nature of the distingue, with which we have to betterebe.

Our pathetogy enpress a preternatural accumulation of blood in this brain. Accordingly, the fact and meet election is internation of come is to remove from that bughly or tal party, by every judicises means in our power, this man hid reducedancy.

Colered Lething. If all the remedies for each a property blest toling is the most speady, practically, and effectively, and in the removement of the conflicult; other general is topical blessing, some alongs to be requested in the removed in the count, the quantity, of which is to be regulated by the age of the gratients, the vidence of the disach, and the previous states of the typical begins and have that previous states of the typical blessing in the count and account of the opening of the states of the typical blessing in the count allows to a sufficient always occasions, is a sufficient argument.

be withit thutsty, Ve as its to the les lane po celinably to is simple ton by & danger to concert but tollier w of shirt for withholding the lancet. But, this, so for from detir ring us from the use of renessations is in my opinion one of the strongest proofs in its favour, and server, indisputably, to points out the great, utility of such a measure. The primary object in the application of remodies is, cortainly to subdue disease as promptly, and effective ally, as its obstinacy, and the measured employed will admit For the longer, a disease is permitted to endurer so much the more dangerous will be the weakings, and the chance of our proportionably precarious. Of the two consequences I really do concion, that it is most judicions, when we have the privilege of a choice, to prefer that which follows a shilful adaptation of remedies. In both cases, there would mus questionably be weakings, but that arising from the treatme out is simple, and early striated . Whereas, the debility browght on by a protracted complaint, is frequently complicated with dangerous affections of the viscora, and is almost above ye accompanied by a train of will, which challenge the best concerted pland of ingenuity and exposience. Bloods lotting has been very hastily condemned in the dis: rases of shildren, and this is the more remarkable, as in

hedim Mrs. S. puderosa at white fallo line in colies Emu, a tow. 2. Get Bu in to place andy, wh Win chils 4 or who sect by be, man

many cases, there is not in the whole circle of medical respectiones, a suitable equivalents. So far, in my opinion, is this from corrects doctrine, that in the acute diseases of cho ildrew, I believe there is no remedy which may not, left dangerously be dispossed with than bleeding, and now wis theut which they prove more intrastables. Children are wonder rfully tenseious of life, and experience confirms the facts that in inflammatory diseases, they are better able to sud; tain copious bleedings, those any other order of patients. Indeed, they so soon supply the los of fluids, that in mamy cases, one bleeding will be insufficient for the purpose of cure, and it is frequently necessary to repeat, the ope ration. The peregoing romarks, are by no means, intended to countenance a rock and indiceriminate use of the Cancel; On the contrary, the only object, I have in view is to place in a true lighty the great, advantage of the runedy, when judiciously unplayed. When children who have infine constitutions, are attack eds; or whose the disease superound to great, debitity, in dured by previous complaints, thew general bleeding wow la be, manifestly; improper, and pregudicial. Here

line that the part with which will a Vest blee they of to witness, to whister ; to fine moutinis he to in theme veg Bis orders all cade あった は also prece local bleeding from the heads, by means of lecented and eups, is of immense sorvice. By thus detracting blood for our the affected part, we road ourselves of all the advan stages of the romedy, without much increasing the debilly of the general system. It is not, however, to be un dontordy that cupping and lesshing, are intended to be restricted to the cases just noticed. On the contrary topic at depletion is of opential moments, in all eases, and to omits its under any false pretects, would be the higs the of imprendence. In some cases, indeeds the morbido congestion of bloods, in the corebral circulation, appears to be so immoreably fixed, by the diseased action in the tatrone refeels, that the most plentiful general bleeds. not; is outrely incompetent to remove it, and it becomes necessary to execuate opiously from the head. This may be done, in conjunction with the means already spoken of by opening the temporal artery, or jugular rein. In all cases where there exists general arterial excites ments, it is very widents that bleeding from the arm should precede local depletion. of this arterial irrital: they is carelesly disregardeds, and topical bleeding

a Shis operation is mentioned by Morgagin; who says it may be used, with much advantage, in all cases, the the haw is opposed with the much bloods. Wide thorks. Wook I. Spistle W. Article 10. it it as atelity above, recreted to; it is sufficiently obvious that each a condition of the arteries would cause the bords to be perfectled with increased violence to the brain, and the remay would the witz which it was designed to records. In the many of least deptation absends, to been charted from any creamstand prove inable equals to our perspects it will be expedient to open the occupient owner.

Purgatives. In the treatment of My drocophalus, catharties have been highly, and most descreedly recommended. The intertinal canal, in this complaint, is liable to great irreg. wherely, demotioned, its functioned are so weedingly policide, that it allows a morbide collection of individed faces, who ich are difficulty removed by the strongest purges In other cases, the bowels are pervious, and the discharges are thin; per accoust, and remarkably offending. Mest, commonly, in buth, the intertinal, as well as the hopatio secretions are tonsiderably disordereds being other deficient in quantity or of a quality, weeedingly depraced and unnatural. Under these circumstances, extensive caperionee, confirms the utility of a purgative course, which right to be

Sep. 10.



unremethingly continued, untill a healthy appearance is restored to the exacuations. Independently, of their effects in concetting the merbids decretioned, and awakening the domants powers of the alimentary canal, catharties proce eminently soriesable by the copious evacuation of fluids which they occasion from this parts. Nor need there be any fear of increasing, by this important, measure, the debitity of the systems for it is a fact atteyether worthy of notice, that a continuance of this disordered condition of the intestinal functions, is infinitely more production of injurious effects, than the purgative plan. This remedy, indeed, so far from adding to the weakings which the disease produces, is almost universally followed by the most, manifest saturary consequences. In the very commenceemout of this complaints, a such of catharties, might in many cases, be suployed with the happiest, advantage. For it is obvious, that an impression thus weited, and kept, up in the alimentary canal, woulde, by directing the circulation from the brains, powerfully counterach the mise. hiof, so rudely offered to that delicate and helplop org = un. Catharties, cannot be too highly commended in

he pily Vistoro car of med the In the es acino ha of the pe the 110 10 15 for a so \* Dandow. up a po

three cases of the symptomatio Ay dir cephalus, origina. ting in a dorangement of the digestion organs. Here, they display a pre-eminouse, which justly outiled them to a high ranto in the catalogue of remedies for the complaints; and it is in this case, that they have oftend happily dispelled a train of symptoms, which from their dangerous and menacing aspects, have excited the most alarming apprehonding for the fate of the patient. Blistons. The great relief which blistons afford in most cases of local inflammations, is amply sufficient to recom mand them to our notice in the desease under consideration In the early stages of the complaints, after the vascular action has been reduced by bleeding, and the other depleto. ay measures; a large blister applieds to the seaf, has in many instances effected as most comfortable miligation of the tormenting headache, which so continually have per the patients. The utility of blisters in this disease, seems to have been will known a considerable time pasts for a very ingenious author who, bifly years ago, worde on Ay dreephalus, observes," That though canthanides imp refe a painful someation on the shin, and winary,

in with 10 mally is invited done up the apple in utility · Neid Clarke on the diseases of children.

passages, nevertheless the extraordinary relief they disp lay in some diseases, may be owing for aught we can tatt , to a hunds of titellation, or some unknown operation on invisible fibrilla, uncoplored canals, and on fluids not, yet degnified with a name; the can ascertain or limet The variety or wetents of their powers? However liable to obje setion, this view of the modus operandi of blisters may be, it will not be desired that they constitute an excee dingly valuable mean, in subduing some of the mac viole out, and dishefoful symptoms which are incident, in the first stages of the complaint. Their mode of operation is to be explained upon the principle of revulsion. In course quence of the peculiar inflammation which they excite externally, the powerted action, existing within the brain is invited to this new source of irritation, and in some degree, appears to be supplanted by it. Notwithstanding the weights of authority, in favour of the application of blisters to the heade, in this disease, the in utility is positively denieds by a very ingunious and respectable writin; who declared, that, in a number of the cases of the complaints, which have come under



his charge, he has employed the blister to the scalp, and invariably without success. This facts, so contrary to the observation of most practitioners, & Clarke captas ins, in the following manner. He says, "that when blist ers are applied to the really in inflammation of the bain; a new inflammation is excited on a surface, supplied from the same general truth (proceeding) from the norto) as the brain itself. If an increased flow of blood is produced by the blisten, it can only be by a larger supply from the acrta, through the common truck of the two caroted arteries, which will of course equally supply the diseased inflummation within, and that, excited by the blister outwardly? In exceedingly ingenious and plansitte does this explanativo appear, that we could hardly repuse to admit its concertists, if a very enlarged experience did not abundantly establish the contrary practice. But the gre at advantago, which in numerous cases, most unequie

rectly, has resulted from blisters thus applied, and the tellemony in vaidoation of the massace is so respects able that we are one sufficiently warranted in wagings

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their employment, in the case before us. In most instance ees, indeeds, it will be necessary to aspeat the blisters, and to dreft them with some intaling substances as the sauce a opispastic continents, with the view of hosping up a por potent discharge from the head. It much be confest, at the same time, that, in some cases, where Misters have been applied to the seally, the disease dids torminato un favourably. But this ought, by no means, to descourage we from their use; for the same facts equally applied to many of our most valuable remedies, ande to about dow a mode of treatment, because it is not unicorrally successful, would be an innovation in medicine, no les prejudicial to the seince, than palat to humanity. Cold Applications. Among the means for left wing the plethered of the heads, colds is doubtless entitled to cousi: donable weight. Eletho, deppedo in ico water, or vinegar, should be applied all over the heads, and repeated as Alew as they become worm. Or, what, answers very well, is a bladder of cold waters, or a clay cap. During the applications of colds, and over at all times, the heads ought, to be elevated; at least, as much as, is agreeable

16 6 1 line mass Pedil. 4. Ha hlones to the patients for me a case, alternated with so much danger, it is founded to acase encesses of wang, as and age; however incomediately. By rawing the beauty, and helping it and, the determination to the brain with be obtained by the object of gravity as well as the observation of the case, in a case supporting of the case of the compliance of the patients the new of the remoder by the copyliance of the patients themselves; for whenever they are we a stituation to make however they are we a stituation to make however they are we a stituation to make however the patients, they signify relief, and stime the remode to be hepealed.

Sectioner and Snapione A experiting mount in the bestment, if the fact, stages, relitarium and snapione are lattle to be mentioned. Then remotive which are in imbedient in febrile dimese when there is explosive distributions when the defendant in septemble in septembering they were to be nelle somewhat in the principle at blitter; and by equalitying the same in the heads, as well as often dishefting examplement defendant, when the congestion of the even had refeald

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of unfortunalety the delease has not been accreted by a delignit application of the presenting remoders an efficiency of some, the rectange of modern the rectange of some place within the bours, to which a designor to min of some place within the bours, to which a design the weather the minutes of the country, to could the action of the which the intention of our is a widenty, to could the action of the absolute, by which the inter may be removed from the brain, and the mischious effects of its continuous, than by resistants.

that this view, there is no plans of treatment which permises more, or it blue, better to enecessed them a energy like the medical of operation as properties, the medicans charles be very liberally administrated internally, and the part permised continually administrates internally, and the part permised in large grantities. It is left than their says to Chapman and containing with great dispersion of the transfer is to triffe with the remedy, to practice injustion to consider, and to out off the only chances which the fratestant, and to out off the only chances which the fratestant, and to out off the only chances which



in These cases, by elimulating the absorbents to increased action, or by substituting its own specifie agency in place of the diseased one, does not very clearly appear. It is sufficient for my present purpose to know however, that its utility in this stage of the disease, it incontestates, confirmed, by the repeated experience of many practition oners. I am not ignerant, that the dangerous and even implacable effects, which occasionally follow the exactive use of the medicine, has deterred some physicians from exhibiting it in efficient quantities; but, when we reed teet, that, the disease has new advanced to a stage, in which the itemost, danger is to be apprehended; and from which, indeed, recoveries very rarely take place, endy there ought to be no heritations, or delay in the adoption, and vigorous application, of such measures as experience, teacher us are most likely to prevent, a fatal termination. Imugh mereny semetimes fails in performing the cure, get I think it, is decidedly to be preferred to the digital his purpose a remedy which also, has been highly extelle ed in this stage of the complaints. If the accounts of

to my 1 white A Soften titited be note metimes 2 ton 2/2 4 apparen \* Chayne. 2 to the ul he as & a truce n harties 4 if as

the writers on Aydreeophalus, we to be confided in however, the forglere has undoubtedly proved conspicuously services. the in some instances, and whenever a suitable opportunity presents itself in the course of the treatment, it seems propor to employ it. The medicine oughthe never to be reserted to while the pulse continues to be much excited, or untille the system is brought to acondition parsurable to its use. Exhibited under these circumstances, the article appeared to be entitled to some portion of nor confidence, ande sometimes displays offeels, eminently beneficial and sa tutory The proper mode of administering it, is to comme mee with a temperate dose, which is to be gradually in oreased, untill its operation on some parts of the body is apparents.

Paring, by their embened means, saldness the diences and the effective also being removed from the beaut the will be advised to in the most place, to have removed to a time place of treatment, during which course a very particular attentions should be directed to the built, and if any tendence to continued acids, it ought to be not corefully chosen to continued acids, it cought to be not corefully considered. By these meaners, by these

100 h & And a let they 1 di the 1 A there " with he to the 1 rike go to State, 12 A lan 1 & trestons with the foundant new of underate recreises, the remper cative energies of the systems, with he considerably afinetion, and the seneralisance of the patient, more specially and effectually established.

In now becomes my duty, most affectionality, to offer my thanks, to the Medical Professors of this huncerety, for the instruction I have received from their excellent, to ctivies; as well as to express the great, satisfactions, with which their impression oloquence has stamped upon my mind, the most important, medical truthet. But in mas hing these open expressions of gratitude, gentlemon, let, it not be forgotters, that I thorough feel my impotency to do justied to your monits; and while sensible of the great obligations, which we due to your affection and hinduly. I wish it, to be remembered, that, a source of the most, susible gratification, is opened to my minds when I come template, that, the elements of my medical education, have been imbibade from the illustrious Archiaters of The Western Amisphere.

The Ends.



